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IN THE SPECIFICATION

Please add the following in the specification in the section "BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWINGS" on page 9 after line 30 and before page 10, line 1:

FIG. 15 is a flow diagram in accordance with an aspect of the present invention.

FIG. 16 is a flow diagram in accordance with another aspect of the present invention.

FIG. 17 is a flow diagram in accordance with a further aspect of the present invention.

FIG. 18 is a flow diagram in accordance with yet another aspect of the present invention.

FIG. 19 is a flow diagram in accordance with yet a further aspect of the present invention.

Also please add in the specification on page 48 after line 3 and before line 4:

FIG. 15 is a flow diagram showing steps of a method for dynamic scene modeling and detection of change applicable to motion analysis in accordance with an aspect of the present invention.

In FIG. 16 a flow diagram is provided showing steps for evaluating uncertainties as part of the method described in FIG. 15.

In FIG. 17 a flow diagram is provided showing steps for dynamic scene modeling and change detection applicable to motion analysis in accordance with a further aspect of the present invention.

FIG. 18 is a flow diagram showing steps for deriving optical flow measurement data.

FIG. 19 shows steps in a flow diagram of another method for dynamic scene modeling and change detection applicable to motion detection in accordance with a further aspect of the present invention.